

DATA EVALUATION RECORD

Beauveria bassiana strain 447

STUDY TYPE: *Beauveria Analysis of Beauveria bassiana strain 447*
~~Discussion of the Formation of Unintentional Ingredients~~

(OPPTS 885.1300)

MRID 45144202

Prepared for
Biopesticides and Pollution Prevention Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
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Prepared by
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Task Order No. 45

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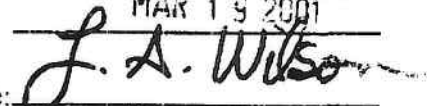
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Disclaimer

This review may have been altered subsequent to the contractor's signatures above.

DATA EVALUATION REPORT

Reviewed by: Susan Chang, M.S., Contractor, Oak Ridge National Laboratory

Secondary Reviewer: Ibrahim S. Barsoum, Ph.D., Microbiologist

ISB

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| STUDY TYPE: | Discussion of the Formation of Unintentional Ingredients (OPPTS 885.1300) |
| MRID NO: | 45144202 |
| CHEMICAL CODE | 128815 |
| EPA REGISTRATION# | 070464-U |
| SUBMISSION # | S585216 |
| DATA PACKAGE # | 268975 |
| TEST MATERIAL: | <i>Beauveria bassiana</i> Strain 447 |
| PROJECT NO: | None assigned |
| SPONSOR: | SafeScience Products, Inc., Boston, MA, |
| TESTING FACILITY: | Kansas State University, Manhattan, KS |
| TITLE OF REPORT: | Beauvericin Analysis of <i>Beauveria bassiana</i> 447 Spores (Batch 83199) |
| AUTHOR(S): | J. Scott Smith, Ph.D. |
| STUDY COMPLETED: | April 28, 2000 |
| GOOD LABORATORY PRACTICE: | Not GLP Compliant |
| CONCLUSION: | No beauvericin mycotoxin was detected (LOD 0.2 ppm) in <i>Beauveria bassiana</i> 447 Spores (Batch 83199). |
| CLASSIFICATION: | UNACCEPTABLE, 5 batches analysis of either the spores or the final product should be provided to confirm these suppositions. |

DISCUSSION OF THE FORMATION OF UNINTENTIONAL INGREDIENTS

I. STUDY DESIGN

Test Material: *Beauveria bassiana* 447 Spores (Batch 83199)

II. RESULTS AND DISCUSSION

A publication by J. Scott Smith titled "Liquid chromatography/thermospray/mass spectrometry analysis of beauvericin" in J. Agric. Food Chem., 45, 1234-1239, 1997 was used to satisfy OPPTS 885.1300 for discussion of formation of unintended ingredients. *Beauveria bassiana* Strain 447 spores (Batch 83199) produced by Sylvan Bioproducts, Inc. were analyzed by Dr. Smith's laboratory using LC/mass spectrometry method and HPLC/diode array detection (in-house modification of the above published method). No beauvericin was detected with the lower detection limit as 0.2 ppm at a signal to noise ratio of 5:1. The packet classification is **UNACCEPTABLE**.